

Nelsen Arsenic Reduction Systems

with



at the Core™



Owner's Installation, Operation & Service Manual

Including models

NARS-10

NARS-12

NARS-14

NARS-18

Homeowner Responsibilities

Due to the health hazards of contaminated water, as the Homeowner, you must also take responsibility to monitor your system to ensure that it is still within safe operating limits. The LED lights on the control valve indicate whether the system is within the limits of the media.

Water Testing!

A water test should be performed after 6 months of system use. Please call the installing dealer to have this test performed so you can feel confident that the system is working properly. Additional water testing should be performed periodically to ensure there has been no additional well contamination or concentrations changed from prior testing.

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Important Dealer/Homeowner Information

Your Nelsen Arsenic Reduction System with Layne at the Core™ is a precision built, high quality product. This unit will deliver arsenic filtered water for the prescribed capacity, when installed and operated properly. Please study this manual carefully and understand the cautions and notes before installing. This manual should be kept for future reference. If you have any questions regarding your water treatment system, contact your installing dealer, or the manufacturer at the following:

Nelsen Corporation - 3250 Barber Rd. Norton, OH 44203.

Introduction

Safe Practices

Throughout this manual there are paragraphs set off by special headings.

NOTE: Note is used to emphasize installation, operation or maintenance information which is important, but does not present any hazard. Example:

NOTE: Systems with tanks greater than 12" diameter will require media loading

CAUTION! Caution is used when failure to follow directions could result in damage to equipment or property. Example:

CAUTION! Do not use Vaseline, oils or other hydrocarbon lubricants or spray silicone anywhere on the system.

WARNING! Warning is used to indicate a hazard which could cause injury or death if ignored. Example:

WARNING! Electrical shock hazard! Unplug the unit before removing the cover or accessing any internal control parts.

Serial Numbers

The Nelsen Arsenic Reduction System with Layne at the Core™ (**NARS**) has two separate serial numbers; one for the control assembly and one for the media tank. The control assembly serial number can be found on the left front bottom side on the display. The media tank serial number is located on the bottom of the tank. DO NOT REMOVE OR DESTROY THESE SERIAL NUMBER DECALS. THEY MUST BE REFERENCED IF YOU REQUIRE REPAIRS OR PARTS REPLACEMENT UNDER WARRANTY.

If you wish to service your system or maintain replacement components, please contact your installing dealer or call (800) 362-9686 for a Water Treatment Professional near you.

This publication is based on information available when approved for printing. Continuing design refinement could cause changes that may not be included in this publication.

Please read this booklet carefully before beginning the installation of the (**NARS**). It contains important information about the unit, including the tools and materials needed for installation, accessories available from hook-up to plumbing, and instructions covering installation, settings, start-up, and operation. The (**NARS**) has been thoughtfully designed and engineered to provide conditioned water for the specific volume when properly applied, installed, and operated.

This system and installation must comply with state and local regulations.

These systems are designed to reduce arsenic to less than 0.010 mg/L. (10 µg/L (ppb)). Actual performance of the system may vary depending on specific water chemistry and conditions at the consumer's installation. Following installation of this system, the installation site should have the treated water tested for arsenic to verify arsenic reduction is being achieved and the system is functioning properly.

Arsenic Fact Sheet

Media used for arsenic removal is affected by a number of water parameters. The **(NARS)** with Layne At the Core™ is designed to reduce pentavalent arsenic. The media was tested under laboratory conditions as defined in NSF/ANSI 53 Drinking Water Treatment Units – Health Effects and was found to reduce influent arsenic challenge concentration of 0.050 mg/L arsenic consisting of pentavalent arsenic in the test water to less than 0.010 mg/L, for the tested treatment capacity; 178,000 gal for NARS-10, 296,000 gal for NARS-12, 396,000 gal for NARS-14, and 692,000 gal for NARS-18, of delivered water, for the life of the system under standard testing conditions. Actual performance of the system may vary depending on specific water conditions at the consumer's installation. Following installation of this system, the consumer should have the treated water tested for arsenic to verify that arsenic reduction is being achieved and the system is functioning properly.

The arsenic removal component (media) of this system must be replaced at the end of its useful life.

Gallons treated will vary depending on water quality and arsenic concentration of source. The Homeowner should contact their Professional Water Dealer for the replacement media and the proper disposal of the exhausted media.

Arsenic Facts

Arsenic (As) is a naturally occurring contaminant found in many ground waters. It generally occurs in two forms (valences or oxidation states): pentavalent arsenic (also known as As(V), As(+5), and arsenate) and trivalent arsenic (also known as As(III), As(+3), and arsenite). In natural ground water, arsenic may exist as trivalent arsenic, pentavalent arsenic, or a combination of both. More information about arsenic and its toxicity can be found on the Agency for Toxic Substances and Disease Registry Toxicological Profile on Arsenic website at www.atsdr.cdc.gov/phs/phs.asp?id=18&tid=3 and U.S. Environmental Protection Agency website at www.water.epa.gov/lawsregs/rulesregs/sdwa/arsenic/index.cfm.

Arsenic does not generally impart color, taste or smell to water and therefore, can only be detected by a chemical analytical test. Public water supplies are required to monitor delivered water for arsenic

(trivalent plus pentavalent arsenic) and the results are available to the public from the utility. Consumers using private water sources will need to make arrangements for testing. It is recommended that the test be done by a laboratory.

Total Arsenic - If the total arsenic concentration is above 0.050 mg/L please consult a water treatment professional.

Arsenite As(III) - The **(NARS)** is designed to remove As(V). If arsenite is present it is recommended to oxidize the water prior to the arsenic removal media. Contact your Nelsen Water Treatment Systems Professional for oxidizing options

pH - Adsorption media operate most effectively between pH 5.5 and 8.5. At elevated pH, silica becomes a more aggressive interfering species. Do not use organic acids (such as citric or acetic acid) to adjust the pH ahead of the media.

Silica - Levels above 20 mg/L begin to interfere with arsenic adsorption on the media when combined with a pH above 7.5.

Phosphate (PO₄) - Levels above 0.150 mg/L as PO₄ or levels above 0.05 mg/L as P will reduce media life for arsenic adsorption.

Iron & Manganese - Soluble iron and manganese may precipitate onto the media bed. If iron and manganese are above the secondary MCLs (0.30 mg/L and 0.05 mg/L respectfully), it is recommended to remove them before the arsenic removal system

Hardness - Hardness does not significantly affect the performance of the arsenic removal media.

CAUTIONS:

Oxidation/Disinfection: Oxidizing agents, such as chlorine or sodium hypochlorite (bleach), can degrade the arsenic treatment media. If chlorine is present in the raw water (> 1.0 ppm residual), it should be removed prior to the media with activated carbon filtration.

Hydrogen Sulfide: If hydrogen sulfide is present, the arsenic treatment media will temporarily remove it from the water before it is displaced by sulfates. Once it is displaced, the hydrogen sulfide will impart an odor to the water.

Performance Specifications

TABLE 1:

Model Number	NARS-10	NARS-12	NARS-14	NARS-18
Service Flow Rate	6.6 gpm	10 gpm	15 gpm	26 gpm
Capacity (gallons treated ³)	178,000	296,000	396,000	692,000
Tank Size	10" x 44"	12" x 52"	14" x 65"	18" x 65"
Filter Media	LayneRT			
Total Media Amount	1.0 cu.ft.	1.5 cu.ft	2.0 cu.ft.	3.5 cu.ft.
Underbedding	None			
Dimensions (approximate)	10" x 24" x 52"	12" x 24" x 60"	14" x 24" x 73"	18" x 24" x 73"
Inlet/Outlet	1" MPT			
Rated Service Flow @ Pressure Drop	6.6 gpm @ 5 psi	10 gpm @ 4 psi	15 gpm @ 4.5 psi	26 gpm @ 5 psi
Temperature Range	40°F - 100°F			
Operating Pressure	30 - 120 psi			
Electrical Requirements	110 volts			
Backwash	Not Applicable (Do Not Backwash)			

TABLE 2:

Water Quality Criteria	
pH Range	5.5 – 8.5
Arsenic ¹	< .05 mg/l
Arsenic Type ²	Pentavalent
Phosphate (PO4) (as P)	< 0.150 mg/l (< 0.05 mg/l)
Silica	< 20 mg/l
Iron	< 0.3 mg/l
Manganese	< 0.05 mg/l
Hydrogen Sulfide	Non Detectable
Chlorine Residual	< 1.0 ppm
Tannins	Non Detectable
Hardness	Not Applicable - Does not effect the performance of the media.

¹ If the total arsenic concentration is above 0.050 mg/L please consult a Nelsen Water Treatment Systems Professional.

² The arsenic removal media removes As (V). If As (III) is present oxidation is recommended.

³ Capacity will vary by individual site based on water quality and usage.

System Components

Check with your state and local public works department for plumbing and sanitation codes. You must follow these guidelines as you install the **NARS** tank assembly. Use of an installation & licensed professional is recommended.

The **NARS** Models are available as a single tank system tank consisting of:

- (1) Pressure vessel with internal distribution system
- (1) Adsorptive media bed (see table 1 for required amount)
- (1) Electronic control valve assembly with top diffuser and internal flow restrictor
- (1) Bypass valve
- (2) Inlet/Outlet 1" NPT fittings (optional sizes available)

Unpack & Inspect System Components

Recommended Equipment

In addition to the Nelsen Arsenic Reduction System, it is recommended the following pre-treatment be installed, (items not included):

- 30 Micron Pre-Filter.
- Inlet and outlet isolation valves (not required for installations where the bypass valve is installed)

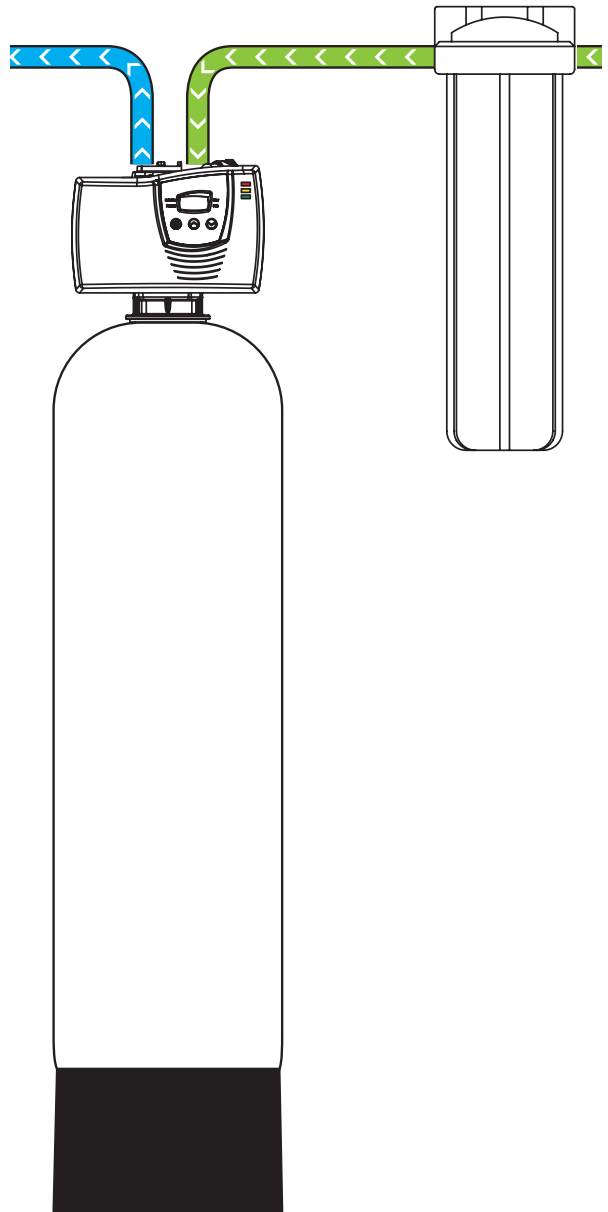
Space Required

- See Table 1 (previous page)

The system must be installed with clear access to the media tank. Before unpacking the system, note the condition of the packaging. Any apparent damage should be documented before opening the boxes.

Drawing of Installed System

Piping not included!



Pre-Installation Guidelines

NOTE: (All electrical & plumbing should be done in accordance to all local codes)

Select Installation Location

Select a location for the system that is:

- Protected from freezing.
- Not exposed to direct sunlight.
- Easily accessible for media tank exchange
- Cold water supply

Water Pressure: A minimum of 30 pounds of water pressure (psi) is required for start up rinse. Maximum 125 psi.

Water Quality: On rural water supplies there is often a problem with sand or sediment in the water. (This problem occasionally occurs in public water supplies.)

WARNING: All water quality criteria must be met to fully protect from Arsenic passing through the system, especially iron.

NOTE: Well and/or pump problems affecting the operation of the system are repairs that are not covered under warranty. To prevent these unnecessary and expensive repairs that are not covered under warranty, we recommend the installation of an in-line filter system ahead of a Nelsen Arsenic Reduction System.

Electrical: A continuous 110 volt 60 cycle current supply is required. Make certain the current supply is uninterrupted and cannot be turned off with another switch. All electrical connections must be connected per local codes. Surge protection is strongly recommended with all electric controls.

General Installation Conditions & Restrictions

Installation and use of the **NARS** with Layne at the Core™ must comply with state and local laws and regulations. This system must be installed near the incoming potable water line in accordance with the detailed instructions in this manual. The **NARS** is not intended to purify non-potable sources of water. Do not use with water that is microbiologically unsafe or with water of unknown chemistry without adequate disinfection before or after the system. The **NARS** is not a disinfection or purification system. The **NARS** is designed to reduce arsenic to less than 0.010 mg/L. Please see "Arsenic Fact Sheet" for further information. (see page 3)

General Operational & Maintenance Requirements

Compliance with operational, maintenance, water testing requirements and replacement requirements as noted in this manual is essential for the product to perform properly.

Assembly & Loading Instructions

Assemble Control Valve & Tank

The control valve comes pre-assembled with the flow restrictor, the flow restrictor is integral to the system and is installed from the factory, and removal of the flow control will violate the performance claims. On site the upper basket, bypass valve and inlet/outlet fittings will have to be installed. For media loading please see below.

The media tank can become very heavy when it is filled with media and water so it is important to lay out the assembly before filling and installing the

NARS.

NOTE: Systems with tanks 12" or greater diameter will require media loading.

- 1 Inspect tank and distributor for any damage that may have occurred in transit.
- 2 Locate the tank in the desired location, before loading, and install the control valve assembly on the tank and mark where the front is. Turn the mineral tank so the front of the tank is where you want it when full. The tank may be difficult to move when full.

- 3 Remove the control valve assembly from tank.
- 4 Place plastic cap over end of distributor tube (the pipe going vertically down the center of the tank.) If cap is not provided, duct tape works well.
- 5 Fill tank with enough water to cover distributor system by 6"; this will prevent tank damage as tank is being loaded with media. Using a funnel, fill tank with the media per system design.
- 6 Clean tank threads of any mineral particles.
- 7 REMOVE CAP FROM DISTRIBUTOR TUBE.
- 8 Lubricate the distributor O-ring seal and tank O-ring seal. Place the control valve on the tank.

NOTE: Only use silicone lubricant.

Install control valve on tank, making sure distributor tube is in the distributor port of the control valve.

Installation Instructions

(All electrical & plumbing should be done in accordance to all local codes)

Use the **NARS** on a potable, safe-to-drink home water supply only.

CAUTIONS:

- Do not use Vaseline, oils or other hydrocarbon lubricants or spray silicone anywhere on the system. A silicone lubricant may be used on black O-rings but is not necessary. Avoid any type of lubricants, including silicone, on red or clear lip seals.
- Do not use pipe dope or other sealants on threads. Only teflon tape may be used on threads. Teflon tape is not necessary on the nut connection or caps because of O-ring seals. Do not use Teflon tape or other sealant on the control tank threads or tank.

- 1 When positioning the system, insure that the space beneath is solid, clean and level.
- 2 Locate the system in a protected area where it cannot freeze.
- 3 Locate the system within 15 feet of a 120 volt electrical grounded outlet that can be dedicated to the unit's use. Use of an extension cord should be avoided, and may not be approved by local electrical inspectors in some areas.
- 4 Do not install in an outside location prone to freezing temperatures or anywhere exposed to sunlight and freezing.
- 5 Allow easy access to the tank for removal and exchange as well as access to the control valve for sampling.

Installation Instructions (continued)

- 6 Do all necessary plumbing (inlet to inlet, outlet to outlet). The control valve, fittings and/or bypass are designed to accommodate minor plumbing misalignments but are not designed to support the weight of a system or the plumbing.
- 7 When assembling the fittings & bypass, connect the fitting to the plumbing system first and then attach the O-ring. Heat from soldering or solvent cements may damage the O-ring. Solder joints should be cool and solvent cements should be set before installing the O-ring. Avoid getting primer and solvent cement on any part of the O-rings, bypass valve or control valve.

The red plastic H clips will break if you attempt to force into position without fully inserting the connector into the body. If the connector is inserted properly the red clip insertion path will be clear.

- 8 A jumper ground wire should be installed between the inlet and outlet pipe whenever the metallic continuity of a water distribution piping system is interrupted. Install grounding strap on metal pipes.

Initial Start Up

The initial startup will probably be done by the technician installing the system. If not, the following step by step instructions will guide you through the process.

- 1 Complete all plumbing connections: inlet, outlet and drain line.
 - a) Slowly turn on the water supply.
 - b) Check the entire system for leaks.
 - c) If leaking from fittings, shut off water supply and tighten or reseal fittings.
 - d) If leaking between the tank head assembly and media tank, tighten the media tank while holding the head assembly.
- 2 Place the bypass valve in the bypass position. Turn on the main water supply. Open a cold soft

water faucet to flush the piping of any air and/or foreign material. Run until the water is clear.

- 3 Now plug the transformer into a 120 volt receptacle. (Be certain the outlet is uninterrupted.) Within 5 seconds the control will automatically turn on and the display will automatically alternate between time of day, current flow and total flow. **DOUBLE CHECK THIS CONFIGURATION**
- 4 Set the time of day by pushing set clock button and using Total Flow and Peak Flow buttons.
- 5 Put bypass valve into "normal operation", Turn off hot water supply and open a valve or faucet (cold water position) and allow the system to flush for a minimum at a time of installation:
 - a) NARS-10: 100 gallons
 - b) NARS-12: 200 gallons
 - c) NARS-14: 300 gallons
 - d) NARS-18: 600 gallons

Before Leaving the Installation Site

- Explain the operation of the filter to the customer.
- Leave the Owner's Manual with the customer.
- Verify that the software and threshold are set to the appropriate Model Number and your company information is entered into the control valve.
See the Nelsen 7000 PID Arsenic Reduction Valve Manual for information.
- Clean up the unit and installation site. Remove any soldering, or pipe thread, residues from the equipment and surrounding area with a damp towel. Remove all packaging material, and sweep up any debris that may be on the floor.

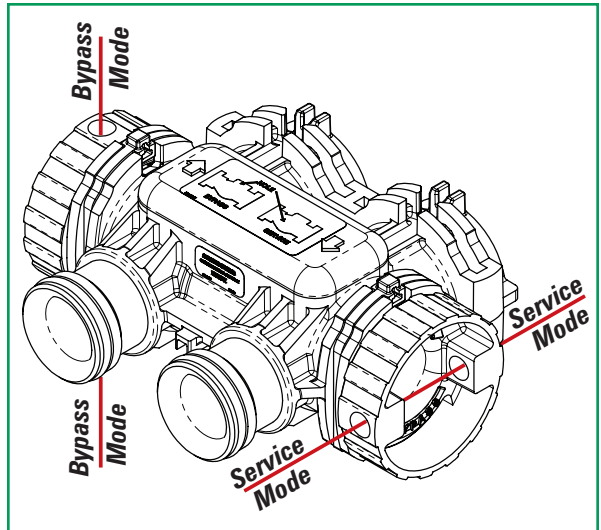
The Nelsen Arsenic Reduction System is now in service, reducing arsenic.

Bypass Valve Operation

Normally, all water except outside lines passes through the arsenic reduction filter. There are times when the water filter should be bypassed. You should bypass:

- 1 If lines to outside faucets do not bypass the water filter and you do not want to waste the filtered water on lawn sprinkling or other outside uses
- 2 If you are using any chemicals (i.e. disinfection products) to service your well or any other filtration products installed prior to the arsenic reduction system.

NOTE: To bypass the valve, turn bypass knob on both sides of the valve to bypass position. When returning to service, put the inlet into service before outlet.



Both knobs must be turned to the Same Position for proper Service or Bypass mode

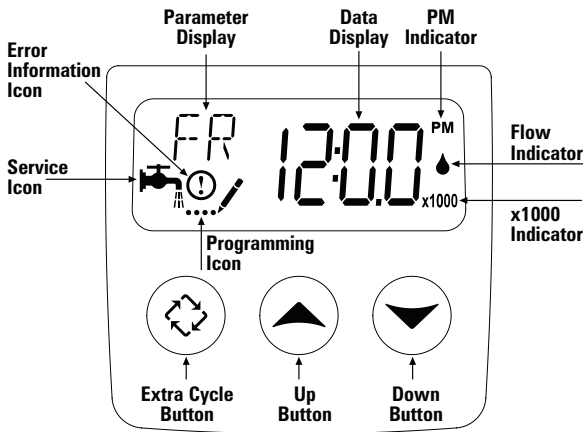
Hole positions in bypass mode should be verticle to the control valve for both knobs



Top view looking down on the Bypass Valve

Nelsen 7000 PID Control Valve

The control valve keeps track of the quantity of water that has flowed through the media bed.



Control Valve Display

When the unit is in service the green LED will be illuminated and the volume remaining "VL" will be displayed. As water passes through the system, a flow meter will calculate the amount of water to be decreased from the volume left.

When the system has been depleted to 20% of its capacity, the yellow LED illuminates. The display will alternate between tech service phone number (alpha "PN", numeric cycles through area code, then first 3 digits, then last 4 digits) and volume remaining.

When the system has been depleted to 10% of its capacity the red LED illuminates. The display will remain alternating between the technical service number and volume remaining.

The LEDs will turn off and the buzzer will sound when the system has been depleted to 0% of initial capacity remaining. The buzzer can be silenced by pressing the EC key for one second. The buzzer will turn back on in the amount of days specified by the "BT" (Buzzer Time) value in master programming.



The display also has three warning lights

Green Light: There is power going to the system.

Yellow Light: System is at 20% CAPACITY REMAINING (see Table 1 page 4).

Red Light: System is at 10% CAPACITY REMAINING, Arsenic can begin to creep through the system

Red Light Off & Beeping: System is at 0% CAPACITY REMAINING, the LED's will turn off and the alarm will sound three (3) times every 15 seconds. The alarm can be silenced by pushing any button and will be silenced for 2 days. Arsenic will now pass through the system.

CAUTION!: Power backup continues to keep time and the passage of days for a minimum of 48 hours in the event of power failure. During a power failure, the control goes into a power-saving mode. **It does not monitor water usage during a power failure**, also it does not reduce the volume remaining by the amount of water used during this period.

Care & Cleaning

Use only mild soap and warm water when cleaning the exterior of the conditioner. Never use harsh, abrasive cleaning compounds or those which contain acid, such as vinegar, bleach and similar products.

Important: Protect your system from freezing temperatures.

DANGER! If your unit freezes, do not attempt to disassemble it. Call your Nelsen Water Treatment Systems Professional.

Important: **NARS** are sold for use on potable water only. If at any time the water becomes contaminated, such as during a “boil water” situation, the operation of the water filter should be discontinued until it is verified that the water is again potable. To do this, put the system in bypass mode, see page 9. Then, call your Nelsen Water Treatment Systems Professional to have your system sanitized before it is placed into service.

CAUTION!: Oxidizing agents, such as chlorine or sodium hypochlorite (bleach), can degrade the arsenic treatment media. When using these products put the Nelsen Arsenic Reduction System in **Bypass Mode (pg 9)**. For disinfecting the Nelsen Arsenic Reduction System consult your Nelsen Water Treatment Systems Professional.

NOTE: Following the manufacturer’s instructions regarding operation, maintenance and replacement requirements, including replacement of filters if applicable, is essential for Nelsen Water Treatment Systems to perform as advertised.

Should service, adjustment or trouble-shooting information be needed which is not covered in the Owner’s manual, call your Nelsen Water Treatment Systems Professional.

Preventative Maintenance Inspection Schedule

Nelsen Arsenic Reduction Systems have been designed to provide good, consistent service life. Routinely inspecting the system may help avoid potentially costly breakdowns related to circumstances outside of the control of the Nelsen

Water Treatment Systems Professional and/or user. The system is for problem water use and routine maintenance is required. Contact your local Nelsen Water Treatment Systems Professional to perform routine maintenance.

Component	Suggested Inspection Frequency	Reason for Maintenance
Entire System	At Start-up, after infrequent use (idle for one week or more) or every 6 months to a year.	On private supplies, the appearance of off-taste and odors, particularly if musty or “rotten egg” (caused by harmless sulfate reducing bacteria) may indicate a need for the system to be sanitized. (see caution above)
Media	As needed	Replace when arsenic can no longer be removed.

Troubleshooting

If you unexpectedly experience changes in your water, make these simple checks before calling your Nelsen Water Treatment Systems Professional. One of the following conditions may be the reason for your interruption of service.

Power Supply - Check your power supply cord, Is it plugged fully into the electric outlet? Be certain that the outlet is not controlled by a wall switch which has been turned off. Plug in the transformer.

Blown Fuse - Check the house fuse or circuit breaker panel. Replace a blown-out fuse or reset an open circuit breaker.

Bypass Valves - Check to see if they are in the proper position. (see Bypass Valve diagram page 9)

No Water - If you aren't getting any water flow registering on the control valve at all, make sure your water supply is working. Open a tap ahead of the filter (outside tap) to see if you have water pressure. If you have water pressure, check the bypass valve. If it is in the service position, put into the bypass and call your Nelsen Water Treatment Systems Professional.

Error Codes - If the words "Error, Call for Service" appear on the main screen, it indicates that there are one or more errors detected. A control in the Error Mode will display one of the appropriate displays shown below along with activation of an audible beep. Pushing the EC (Extra Cycle) key for one second while the audible beep is active will temporarily silence beep for 2 days. The display screen will alternate between the error code and the phone number of your Nelsen Water Treatment Systems Professional.

Error Conditions

If no flow is detected through the system for 10 days, the warning buzzer will sound every second and an error will be shown on the display.



The error can be cleared by resuming flow to the system. If it is not possible to resume flow, the error can be cleared by spinning the flow meter installed within the valve body assembly.

Error Description	Reason for Error	Resolution to Error
SCHEDULED SERVICE (Yellow Light Illuminated)	Displays when 80% of the preset capacity has been used.	Call the number shown.
SCHEDULED SERVICE (Red Light Illuminated)	Displays when 90% of the preset capacity has been used.	Call the number shown and schedule an exchange/re-bed of the media.
SCHEDULED SERVICE (No Lights Illuminated & Audible Alarm)	Displays when 100% of the preset capacity has been used.	Call the number shown and schedule a replacement of the media immediately. To silence alarm, push the EC key for one second.

Nelsen Arsenic Reduction Systems™

Limited Warranty

Nelsen Corporation warrants to the original purchaser the Manufactured Product (the "Product") to be free from any defect in materials or workmanship for one (1) year from date of the original purchase. Each individual component used in the assembly of the Product is covered by the original equipment manufacturer's warranty. All components, except those specifically listed below, are warranted for a period of one (1) year from date of installation to the original purchaser to be free of defects in materials and workmanship subject to the manufacturer's conditions and/or the conditions shown below.

The fiberglass, polyglass or composite mineral tank used in the assembly of this unit are warranted to be free of defects in materials and workmanship for a period of ten (10) years on 10" & 12" size tanks, and five (5) years on 14" and larger size tanks, subject to the manufacturer's conditions and/or the conditions shown below. Warranty does not cover sandblasting of tank caused by faulty distribution systems, fractures caused by external impact and exposure to vacuum.

The control valve is warranted to be free of defects in materials and workmanship for a period of five (5) years subject to the manufacturer's conditions and/or the conditions shown below.

This warranty excludes:

- Performance of the media.

The Arsenic Reduction media has been tested against NSF/ANSI Standard 53 for the reduction of pentavalent arsenic up to the capacity stated in table 1 for the given model number. The concentration in water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system as specified in NSF/ANSI 53. The arsenic removal component of this product must be replaced at the end of its useful life as stated for its model. Performance will vary based on local water conditions. The media has been tested for the treatment of water containing pentavalent arsenic at concentrations of 0.050 mg/l or less. Please see Arsenic Facts section of the Performance Data Sheet for explanation of reduction performance.

- Use of the Product where water is microbiologically unsafe or of unknown chemistry, without adequate disinfection before or after the media tank assembly. The term "media tank assembly" means the media

tank head assembly and media tank which together form a filter pressure vessel.

- The cost of shipping the Product for repair.
- Service calls to your home to repair the Product.
- Improper installation of the Product for repair.
- Product defects that result from improper installation or damage not caused by Nelsen Corporation.
- Well or pump problems affecting the operation of the Product.
- Defect in the Product caused by normal wear and tear, or physical damage to components of the Product which may occur during normal use.
- Defect in the Product caused by accident, negligence, casualty, improper service, improper maintenance, power outage or spike, or earthquake, fire, flood or any other Act of God.
- Defect in the Product caused by failure to comply with any of the procedures specified in the Owner's manual.
- Defect in the Product resulting from abuse, misuse, alteration or use for other than intended purpose.
- Defect in the Product caused by extreme operating or environmental conditions.
- Defect in the Product caused by modification, tampering, or repair by any party other than Nelsen Corporation.
- Defect in the Product resulting from damage during shipping

How do I make a warranty claim?

- Contact the dealer from whom you purchased the unit.

How does state law relate to this warranty?

- This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

DISCLAIMER THE WARRANTIES SET FORTH HEREIN ARE EXCLUSIVE. Nelsen Corporation DISCLAIMS ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTY CLAIMED TO ARISE FROM COURSE OF DEALING, COURSE OF PERFORMANCE, OR USAGE OF TRADE.

